WHAT IS CLAIMED IS:

- 1 1. A fuel supply system for a vehicle, the fuel supply system
- 2 comprising:
- 3 a fuel tank;
- a pump unit which is installed on a top of the fuel tank,
- 5 the pump unit sucking fuel from the fuel tank and delivering
- 6 the fuel to an engine;
- a fuel level detection device disposed in the fuel tank, the
- 8 fuel level detection device comprising
- a float which floats on the fuel in the fuel tank, and
- a sensor member which is disposed between an
- inside bottom of the fuel tank and the pump unit, the sensor
- member detecting a displacement of the float; and
- a pressing member which is disposed between the pump
- 14 unit and the sensor member, the pressing member pressing
- against the sensor member, the sensor member being pressed
- against the inside bottom of the fuel tank.
- 1 2. The fuel supply system as claimed in claim 1, wherein the
- 2 pump unit comprises a fuel pump which sucks fuel from the
- 3 fuel tank and delivers the sucked fuel, and a chamber which is
- 4 disposed inside the fuel tank, the chamber being cylindrical
- 5 and having a closed bottom to maintain fuel around an intake
- 6 opening of the fuel pump.
- 1 3. The fuel supply system as claimed in claim 1, wherein the
- 2 pressing member is connected to the sensor member and a
- 3 bottom of the chamber.
- 1 4. The fuel supply system as claimed in claim 3, wherein the
- 2 sensor member is disposed under the chamber.

- 1 5. The fuel supply system as claimed in claim 4, wherein the
- 2 pressing member comprises a coiled spring, one end of the
- 3 coiled spring being connected to a bottom of the chamber and
- 4 another end thereof being connected to the sensor member.
- 1 6. The fuel supply system as claimed in claim 5, wherein
- 2 the chamber comprises a first attachment projection on the
- 3 bottom thereof, one end of the coiled spring being connected
- 4 to the first attachment projection.
- 1 7. The fuel supply system as claimed in claim 6, wherein
- 2 the sensor member comprises a second attachment projection
- 3 on a top thereof, the other end of the coiled spring being
- 4 connected to the second attachment projection.
- 1 8. The fuel supply system as claimed in claim 1, wherein
- 2 the pressing member is connected to the sensor member and a
- 3 side of the chamber.
- 1 9. The fuel supply system as claimed in claim 8, wherein
- 2 the sensor member is disposed outside an area which is
- 3 directly under the chamber.
- 1 10. The fuel supply system as claimed in claim 8, wherein
- 2 the pressing member comprises a helical torsion spring, one
- 3 end of the helical torsion spring being connected to a side of
- 4 the chamber and another end thereof being connected to the
- 5 sensor member.

- 1 11. The fuel supply system as claimed in claim 1, wherein the
- 2 pressing member comprises a spring, one end of the spring
- 3 being connected to the chamber and another end of the spring
- 4 being connected to the sensor member.
- 1 12. The fuel supply system as claimed in claim 1, wherein the
- 2 pressing member is disposed between the chamber and the
- 3 sensor member.
- 1 13. The fuel supply system as claimed in claim 1, wherein
- 2 the sensor member comprises an arm, one end of the arm
- 3 being swingably connected to the sensor member and the other
- 4 end of the arm being connected to the float.
- 1 14. A fuel supply system for a vehicle which comprises an
- 2 engine, the fuel supply system comprising:
- 3 a fuel tank;
- 4 pump means for sucking fuel from the fuel tank and
- 5 delivering the fuel to the engine, the pump means comprising
- 6 containing means for maintaining an amount of fuel inside the
- 7 pump means, the containing means being disposed inside the
- 8 fuel tank;
- a float which floats on the surface of fuel in the fuel tank,
- 10 the float having an upward or downward displacement which
- corresponds to a respective rise or fall in the surface of the
- 12 fuel;
- sensor means for detecting the displacement of the float,
- the sensor means being disposed on a bottom of the fuel tank;
- 15 and

- pressing means for pressing the sensor member against the bottom of the fuel tank with elasticity, the pressing means extending from the containing means.
 - 1 15. A fuel supply system for a vehicle comprising an engine
 - 2 and a fuel tank, the fuel supply system comprising:
 - a pump unit which is disposed on a top of the fuel tank,
 - 4 the pump unit comprising a chamber suspended inside the fuel
 - 5 tank;
 - a sensor member which is disposed on an inside bottom of
 - 7 the fuel tank;
 - a float which has a displacement corresponding to a
 - 9 change in a level of the surface of the fuel, the displacement
- 10 being detected by the sensor member; and
- elastic pressing means for pressing against the sensor
- member with elasticity, the elastic pressing means being
- disposed between a top of the sensor member and the chamber.